

## Abstract

A method for producing a cathode material for a secondary battery, characterized in that it comprises admixing a compound liberating a phosphate ion in a solution (phosphoric acid  $\text{H}_3\text{PO}_4$ , phosphorus pentoxide  $\text{P}_2\text{O}_5$ , ammonium dihydrogenphosphate  $\text{NH}_4\text{H}_2\text{PO}_4$  and the like), water and metallic iron, adding lithium carbonate, lithium hydroxide or a hydrate thereof to the resultant mixture, and firing the resultant reaction product, to thereby synthesize  $\text{LiFePO}_4$ .